

ABSTRACT OF THE DISCLOSURE

5 A reusable analyte sensor site for use with a replaceable analyte sensor for determining a level of an analyte includes a site housing. Preferably, the site housing material is formed to have an interior cavity with an opening and a conduit that is connected to the opening of the interior cavity to provide access to the interior cavity. The site housing material is selected to promote tissue ingrowth and vasuclarization, and yet be free of tissue ingress. Also, the site housing material permits the analyte to pass through the site housing material to the interior cavity to permit measurement by the replaceable analyte sensor. In addition, the conduit has a predetermined length to inhibit trauma and encapsulation of tissue occurring at the conduit, which is associated with placing the replaceable analyte sensor in the interior cavity of the site housing, from interfering with the tissue ingrowth and vascularization surrounding the interior cavity of the site housing material.